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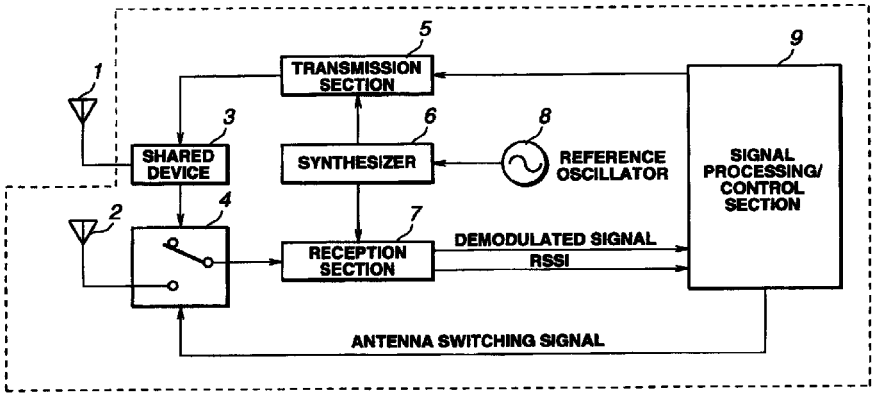
(54) Radio communication unit and receiving method for diversity reception

(57) The switch(4) consumes power necessarily when the antenna is changed over in the diversity reception. The present invention intends to reduce this power consumption and also to assure an appropriate reception condition. Initially, the reception is performed with an antenna(1) connected to the reception section(7) and the reception quality such as reception filed level or the like is detected. At that time, it is detected whether the reception quality is equal or superior to a given value or not, and when it is detected that the reception quality is equal or superior to the given value, the reception is performed by the antenna (1) connected to the reception section(7), without performing the diversity reception. The reception quality detection continues and, when the reception quality falls below the given value, the diversity reception will be performed.

FIG.1



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EUROPEAN SEARCH REPORT

Application Number
EP 97 11 6078

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X Y	EP 0 620 657 A (MATSUSHITA ELECTRIC IND CO LTD) 19 October 1994 (1994-10-19) * page 2, line 54 - page 3, line 16 * * page 6, line 35 - line 58 * * figures 2,7 * ---	1-7,9-14 8,15	H04B7/08
Y A	EP 0 675 609 A (SONY CORP) 4 October 1995 (1995-10-04) * column 6, line 41 - column 9, line 40 * * column 15, line 10 - line 27 * * figures 2,11 * ---	8,15 1-7,9-14	
X	EP 0 440 239 A (MITSUBISHI ELECTRIC CORP) 7 August 1991 (1991-08-07) * page 2, line 1 - line 36 * * page 3, line 6 - line 20 * * figures 1,3 * ---	1-15	
X A	EP 0 676 870 A (MITSUBISHI ELECTRIC CORP) 11 October 1995 (1995-10-11) * abstract * * column 2, line 33 - column 3, line 12 * * column 4, line 10 - line 55 * * figure 1 * -----	1-7,9-14 8,15	TECHNICAL FIELDS SEARCHED (Int.Cl.6) H04B

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
THE HAGUE	11 April 2000	Gkeli, M

CATEGORY OF CITED DOCUMENTS

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11-04-2000

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0620657 A	19-10-1994	JP 6303220 A	28-10-1994
		JP 6303218 A	28-10-1994
		CA 2121448 A	17-10-1994
		US 5561673 A	01-10-1996
EP 0675609 A	04-10-1995	JP 7274248 A	20-10-1995
		CN 1111860 A	15-11-1995
EP 0440239 A	07-08-1991	JP 2552928 B	13-11-1996
		JP 3226124 A	07-10-1991
		AU 636438 B	29-04-1993
		AU 7005691 A	01-08-1991
		CA 2035167 A	01-08-1991
		CA 2035167 C	20-09-1994
		DE 69127480 D	09-10-1997
		DE 69127480 T	02-04-1998
		US 5239541 A	24-08-1993
EP 0676870 A	11-10-1995	JP 7283808 A	27-10-1995
		SG 45312 A	16-01-1998

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82